INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/41923

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B01L 3/00, 3/02; G01N 1/00, 1/10; C02F 1/40; C25D 1/12 US CL : 422/99, 93, 100, 102; 436/174, 180; 204/600-602, 622			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 422/99, 93, 100, 102; 436/174, 180; 204/600-602, 622			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
X, P	US 20003/0232450 A1 (YOSHIDA) 18 December 20	03, paragraphs 0055 and 0065	20-22
. A			1
x	US 6,130,098 A (HANDIQUE et al.) 10 October 200	00, see Summary of Invention	20-21
 A		•	1
х	US 6,508,988 B1 (VAN DAM et al.) 21 January 2003, (column 13, lines 54-67; column 14		20-22
x	line 61 - column 15, line 7) US 2002/0187074 A1 (O'CONNOR et al.) 12 December 2002, see paragraphs 0042, 0045,		20-21
Y	and 0060 US 2003/0124736 A1 (MANZ et al.) 03 July 2003, paragraphs 0025, 0040		20-22
X US 2003/0006140 A1 (VACCA et al.) 09 January 20 0128		003, see paragraphs 0062, 0063, and	20-22
Further	documents are listed in the continuation of Box C.	See patent family annex.	
		"T" later document published after the inte date and not in conflict with the applic	
"A" document defining the general state of the art which is not considered to be of particular relevance		principle or theory underlying the invent. "X" document of particular relevance; the	ention
"B" earlier application or patent published on or after the international filing date		considered novel or cannot be considered when the document is taken alone	red to involve an inventive step
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
"O" document referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in th	e art
priority date claimed		"&" document member of the same patent	
		Date of mailing of the international search report 7 9 JUL 2004	
16 June 2005 (16.06.2005)			
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US		Authorized officer	
Commissioner for Patents		Brian Gordon + William Gordon	
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. (571) 272 700	Kon
Facsimile No. (703) 305-3230			

Form PCT/ISA/210 (second sheet) (January 2004)